Glossary

Acid mine water	water that drains from a coal mine; water that contains sulfuric acid,		
	mainly due to the weathering of iron pyrites		

Anthracite a coal having high carbon content and low volatile matter that burns with a clean flame; also called "hard coal"

Auger a rotary drill that uses a screw device to penetrate, break, and then transport the drilled material such as coal

a tool used to drill a hole in the coal seam into which the black powder charge was placed for "shooting the face"

a device that operated on batteries carried on the miner's belt; replaced the carbide lamp in the 1930s

A layer of coal or other sedimentary deposit

a dome-shaped oven lined with firebrick where coal was burned to make coke

a looped belt on which coal or other materials can be carried out of the mine

a middle rank or type of coal formed by additional pressure and heat on lignite; often referred to as soft coal

a term generally applied to a buildup of carbon dioxide and nitrogen in the air within a mine shaft

a long handle shovel used to clear the coal or bug dust from the undercut face so the coal could fall and break apart when "shot"

a plate placed against the miner's chest to help put extra pressure against the auger bit as it bore into coal

Black damp

Auger bit

Bed

Battery lamp

Beehive coke oven

Belt conveyor

Bituminous coal

Bug dust shovel



Glossary

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metal coin-like disc stamped with a miner's name and/or company number to identify the coal loaded by each miner

Coal

a solid formed from organic materials and classified as a fossil fuel

Coal mine

an area of land and all structures, facilities, machinery, tools, equipment, shafts, slopes, tunnels, excavation, and other property placed upon, under, or above the surface to be used in the extraction of coal

Coal seam

a layer of coal between layers of sandstone or shale

Coke

a solid, dry carbon residue produced by burning coal until the impurities are consumed

Continuous miner

a machine that constantly extracts and loads coal

Carbide lamp

a device attached to the miner's cap that burns a gas produced when carbide and water are mixed together

Company store

a building owned by the mining company that supplied food, furniture, equipment, and supplies to the miners and their families

Crosscut

a passageway driven between the entry and its parallel air course or air courses for ventilation purposes

Dinner bucket

a container divided into sections for water and food and used by the miner to carry food into the mine

Drift mine

an underground coal mine in which the entry or access is located on the slope of a hill and driven horizontally into a coal seam

Dust-free respirator

a mask to filter out harmful coal and rock dust

Erosion

the process of moving rock, dirt, and sediments from one place to another

Extraction

the process of removing coal from a mine



Glossary

ce	the exposed area of a coal bed from which coal	
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Fire boss the employee who entered the mine before the miners to burn off any harmful gases

the combustible gas methane Fire damp

> an impression, cast, track, or body part of any plant or animal that is preserved in rock

one who studies the constitution, structure, and history of the earth's

is being extracted

a hard hat that came into widespread use in the 1950s and provided more protection for the miner

an incline rail car used for transporting coal, supplies, and people to and from the mine entrance

a building located near the mine opening where coal is loaded onto a conveyor or monitor to be transported to the tipple

usually a three room, L-shaped house with board and batten exterior and no insulation constructed by the coal company and rented to the miners

a smooth cylindrical rock, thought to be the remains of a tree stump, that may drop from the roof of a mine without warning

a device worn on a miner's cap to generate light and provide visibility in the dark coal mines

a type of coal that has a low heat content and is formed from peat

a sedimentary rock composed primarily of calcium carbonate

the processes that convert a sediment into a sedimentary rock

Fossil

Geologist

Hardshell cap

Haulage

Headhouse

Jenny Lind house

Kettle bottom

Lamp

Lignite

Limestone

Lithification

Glossary

	mining
Longwall	IIIIIIIIII

one of three major underground coal mining methods currently in use; employs a steel plow, or rotation drum, which is pulled mechanically back and forth across a face of coal that is usually several hundred feet long; the loosened coal falls onto a conveyor for removal from the mine.

Miner

one who is engaged in the business or occupation of extracting ore, coal, precious substances, or other natural materials from the earth

Mining car

a conveyance used in the early days of mining in which coal was loaded and pulled out of the mine by animals and later by electrical power

MSHA

Mine Safety and Health Administration, the federal agency that regulates coal mine health and safety

Monitor

a system used to haul coal from the headhouse to the tipple

Overburden

layers of soil and rock covering a coal seam

Peat

the partially decayed plant matter found in swamps and bogs that is usually brown, crumbly, lightweight, and spongy in texture; one of the earliest stages of coal formation

Pick

a tool used by the miner to undercut the coal seam before shooting

Pinning

the act of placing bolts in the roof of the mine to keep it from falling

Powerhouse

a structure located near the tipple where power was produced to supply electricity to the mining operation

Preparation plant

a place where coal is cleaned, sized, and prepared for market

Reclamation

the restoration of land and environmental values to a mine site after the coal is extracted

Roof

the layer of rock or other material above the coal seam; the overhead surface inside a coal mine



Glossary

Roof bolt	a long steel bolt driven into the roof of underground excavations to
	support the roof and prevent and limit the extent of roof falls

Roof support posts, jacks, roof bolts, and beams used to support the rock overlying a coal seam in an underground mine

Sandstone a sedimentary rock consisting of sandlike quartz sand united by a cementing material

> money (paper and metal) issued instead of cash by the coal company to pay their miners instead of cash; usually redeemed only at the company store

large and small material carried from one place to another by wind or water and deposited on the earth's surface

rocks formed from particles by mineral matter that leaches out of ground water

an underground mine in which the main entry or access is through a vertical opening

powder to break the coal loose so it could be loaded into cars

to the coal seam

because it contains very few impurities

a hat worn by miners until the late 1930s to hold the important carbide lamp

a thin roll of waxed paper with a little powder in its upper part which was inserted into the drilled hole to act as a fuse

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Glossary

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a mine where coal lies near the surface and can be extracted by removing the covering layers of rock and soil

Tamping bar

a long metal bar used to clean out the hole drilled with the auger bit and to tamp the blasting powder back into the hole

Tipple

originally the place where the mine cars were tipped and emptied of their coal; a place still used in that same sense, although now more generally applied to the surface structures of a mine, including the preparation plant and loading tracks

Undercutting

an early method of mining coal where a layer of coal was removed with a pick at the bottom of the seam

Underground mine

a deep mine usually located several hundred feet below the earth's surface where coal is removed mechanically and transferred by shuttle car or conveyor to the surface

Weighman

the employee who weighed the mine cars as they came out of the mine and credited the tonnage to the appropriate miner

